

Memoranda

Howland Is.
10-11 December 1966
Bob. Tuxson

Hawland
Island
Dec 9

SIC 16

Tuxson

✓ ADP

✓ CDK

Done 8/26/68



10 Dec Howland

Bands closed

737-82131-56

all used up
~

11 Dec

Bands closed

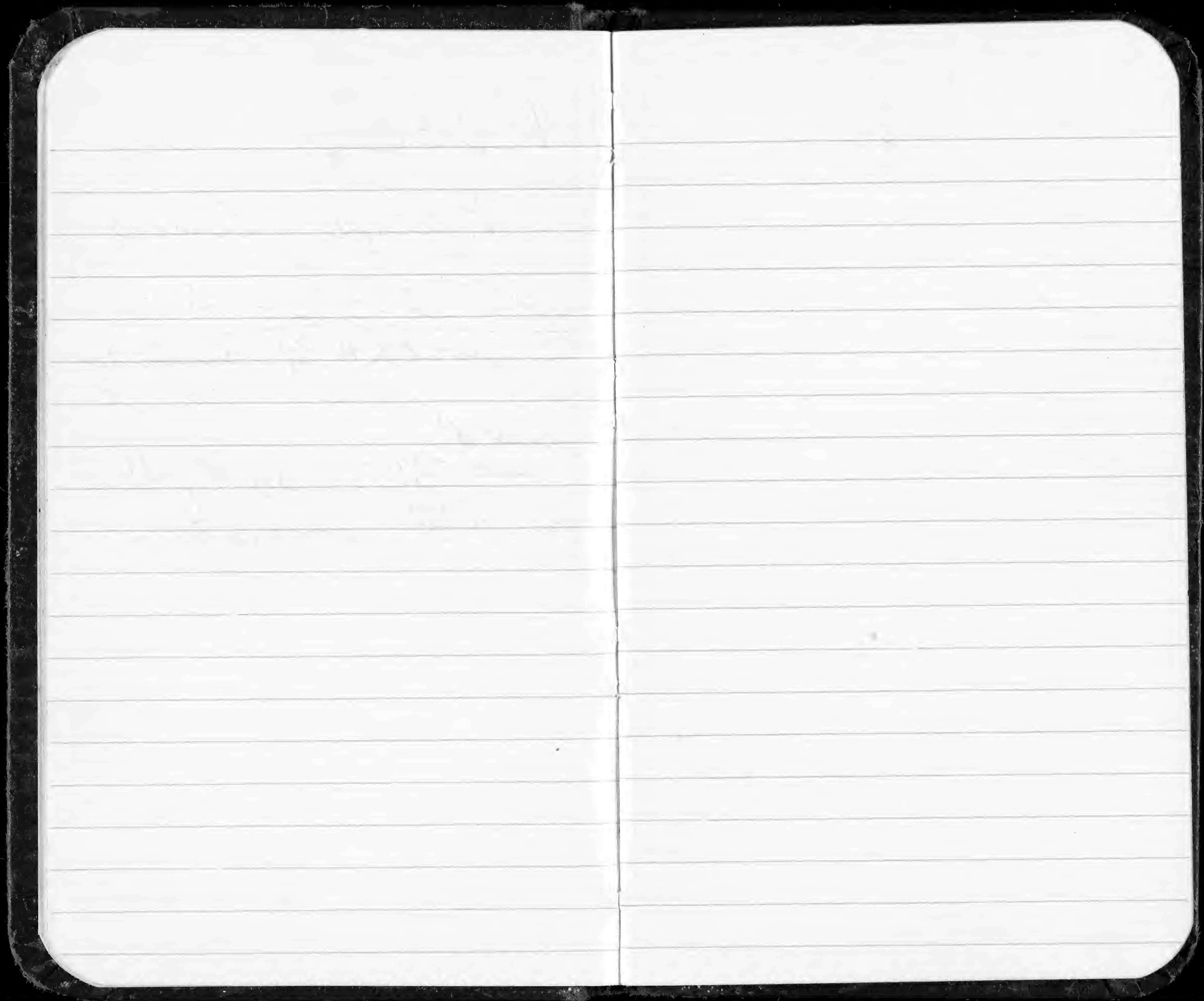
625-23336-400

with #39 missing

used.

= 36, 37, 38, 40, 41

on RTTB immatures



✓ ATP
9 Dec Recovery

Sooty Tern
793-43712 ✓ How Feb 65

no brood patch
gonads

♀ -
ovary - 19x5 ~~mm~~ 4mm l. ovum
oviduct - convoluted

molt - primaries }
 secondaries }

all in new

mod fat

iris brown
legs & bill black

9 Dec ② Dead birds

Ruddy Turnstone Molt
2 specimens

① all flight feathers in
remiges new
retrices slightly worn
no body molt
slight molt on neck

② all flight feathers in
remiges new
retrices not worn
mod. body molt on back

9 Dec — Hawkes
Shorebird Survey

CP ③

4

RT $4 + 3 =$

⑦

2

BTC

①

WT. — ②

1

10 Dec Nest Count 10 Dec Nest Count

BFB
leg ~~||||~~ ~~||||~~ || = (12)

288 - ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~

(36)

~~Bulg. cluch~~

small chick ~~|||||~~

signature

10 Dec Nest Count

~~XXXXXXXXXX~~ - ~~XXXXXXXXXXXXXXX~~

Inland
Shorebird Survey

~~BTC-1
GP-7+4~~ - (1) (11)

RT ~~###~~ inland = 63
~~###~~ + ### + 41 + 3

BFB

Hawland

10 Dec Banding

737-82131 [♂] BFB - chick

~~737-82131 [♂] BFB - chick~~

— 32 - immature

— 33 - immature

— 34 - immature

— 35 - l. chick

— 36 - l. chick

— 37 - l. chick

— 38 - immature

— 39 - l. chick

— 40 - imm.

— 41 - l. chick

— 42 - immature

— 43 - SA - club

— 44 - immature

— 45 - immatu

Hawland

10 Dec Banding
BFB

— 46 - l. chick

47 - imm

48 - "

49 - "

50 - "

51 - "

52 - imm

53 - Ad. ♀ 2 eggs

54 - imm

55 - imm

56 - imm

Returns
10 Dec BB ✓ ~~ADP~~

737-53018 - ♂ - Ich ✓
737-53072 ♀ pm ✓
737-53042 ♀ 2e ✓
737-53025 ♀ m. ✓
737-53045 ♂ ✓

✓ADP Returns 10 Dec. ✓ADP BFB

568-72081 - ♀ 2 eggs ✓
 737 53441 ♀ R ✓
 737 20663 ♀ R ✓
 737-23608 ♂ 2 eggs ✓
 737-20673 ♀ imm ✓
 737-82005 ♀ 2 eggs ✓
 737-23572 ♀ R ✓
 777-54562 ♂ 2 eggs ✓
 757-63132 ♀ R ✓
 737-49755 ♂ R ✓
 737-39517 ♂ R ✓
 757-62849 ♂ 2 lv ✓
 737-82012 ♂ imm ✓
 737-49860 ♀ l m ✓
 737 53481 ♂ imm ✓
 737-39530 ♂ R ✓
 737-49695 ♂ R ✓
 737 20817 ♂ R ✓
 737-27607 - ♀ R ✓

Returns 10 Dec ✓ADP BFB

737-28795 ♂ 2 lv ✓
 757-63136 M - imm ✓
 737-23561 ♀ 1 lv ✓
 757-63349 ♀ R ← PW ✓
 587-80940 ♂ R ✓
 737-49800 ♂ ← PW ✓
 737-22672 ♀ imm ✓
 757-62841 ♂ 1 lv ✓
 737-28895 ♀ 2 lv ✓
 737-28607 ♀ imm ✓
 757-62858 ♂ l ch ✓
 737-39573 ♂ on nest ✓
 737-39588 ♀ 2 lv ✓
 737-28521 ♀ 2 lv ✓
 737-27959 ♀ 2 lv ✓
 737-28860 ♀ R ✓
 737-39578 ♀ 1 lv ✓
 737-53125 ♂ R ✓
 737 23607 ♂ imm ✓

Returns	ADP	BFB
737-53477 ♂	2e ✓	
737 53491 ♀	R ✓	
737-28728 ♀	1e ✓	
737-49790 ♂	R ✓	
587-83274 SA	R ✓	
757-63154 ♂	1e ✓	
587-80847 ♀	2e ✓	
737-28849 ♀	2e ✓	
157-62988 ♂	R ✓	
737-82417 ♀	ln ✓	
737-49778 ♂	2e ✓	
737-82410 SA	R ✓	
737-27517 ♀	DN ✓	
737-28746 ♀	R ✓	
737-49756 ♂	2e ✓	
587-83336 ♀	1e ✓	
737 20720 ♂	R pair ✓	
737 27965 ♀	R ✓	
737-28532 ♀	2e ✓	

Returns	ADP	BFB
737-28774 ♀	1e ✓	
737-49644 ♂	2e ✓	
587-80812 ♀	imm (pair) ✓	
737-20027 ♂	" ✓	
737-53472 ♀	1e ✓	
737 20026 ♀	" ✓	
737-28852 ♂	imm ✓	
737-28575 ♀	" ✓	
737-28832 ♀	R ✓	
737-53199 ♀	imm (pair) ✓	
737-28798 ♂	" ✓	
737-20783 ♀	club ✓	
757-62995 ♀	imm ✓	
737 39824 ♀	club ✓	
587-83490 ♂	R ✓	
737-28828 ♀	club ✓	
737-20122 ♂	2e ✓	
737-20113 ♀	2e ✓	
558-85287 ♀	R ✓	

Returns
10 Dec

✓ADP
BFB

737 39820 ♂ R ✓
 737 20537 ♂ ^{RV} amm ✓
 737-20111 ♀ l n ✓
 737 20020 ♀ R ✓
 737 20116 { ♂ R pan ✓
 737-23711 { ♀ " ✓
 757-62781 ♀ RV ✓
 737-28813 { ♂ l chick ✓
 737-20898 { ♀ " ✓
 737-53463 ♂ RV ✓
 737-28996 ♂ R ✓
 737-28998 ♂ R ✓
 757-65237 ♀ RV ✓
 737-53195 ♀ R ✓
 737-49834 ♂ 2e ✓
 757-66972 ♀ 2e ✓
 737-23007 ♂ R ✓
 737 68815 ♂ immg. ✓
 737-20829 ♀ club ✓

Returns
Dec 10 BFB

✓ADP #6

75761975 ♀ club ✓
 737-49714 ♂ club ✓
 587-98009-SA club ✓
 568-71003 ♀ club ✓
 737-49703 ♂ club ✓
 737-23614 ♀ club ✓
 587-83487-SA-club ✓
 737 53166 { ♂ R ✓
 737-39503 { ♀ " ✓
 737-28675 ♀ R ✓
 737 20106 ♀ R ✓
 737-28677 ♂ 2e ✓
 737-39828 ♀ R ✓
 737-27828 { ♂ R ✓
 737-20688 { ♀ R ✓
 737-28956 { ♀ R ✓
 737-20900 { ♂ R ✓
 587-83313 ♂ R ✓
 737-20589 ♂ R ✓

#7 ✓ADP

BFB 10 Dec

Returns

737-28999	♂	RV
737-27640	♀	RV
737-20656	♂	lv
737-39925	♂	imm
737-20877	♂	lv
587-80823	♀	RV
737-20868	♀	imm
737-20870	♂	"
587-85015	♂	RV
757-65245	♀	
737-39890	♀	RV
737-20921	♂	Zeggs
737-27698	♂	R
568-70345	♀	cluck
587-80895	♀	cluck
757-63235	♂	"
587-90193	SA	"
737-20640	♂	RV
737-49765	♀	imm

BFB

10 Dec

✓ADP #8
1356
Returns

737-20738	♀	R
587-84095	SA	RV
737-39869	♀	sm chuck
737-28659	♂	"
587-83334	♂	cluck
737-20752	♀	Zeggs
737-53352	♂	lg cluck
587-82812	♂	lg nest
737-82441	♀	
757-62873	♂	Zeggs
737-27753	♂	sm nest
737-27819	♀	"
737-27861	♂	R
737-20857	♂	imm
757-67200	♀	R
737-28701	♂	"
737-49718	♂	imm
587-83347	SA	R
737-82455	♀	2 eggs

#9

10 Dec

✓ADP

BFB return

737-20930 ♂ egg ✓
 737-27752 ♀ med chick ✓
 568-71409 ♀ club ✓
 737-28647 ♂ " ✓
 737-39910 ♀ 2 ✓
 587-81876 ♂ R ✓
 737-39793 ♀ 2 eggs ✓
 737-39906 ♀ lg nestling ✓
 737-53419 ♂ ✓
 558-85264 ♀ ~~club~~ egg ✓
 737-39620 ♂ club ✓
 757-65269 ♀ club ✓
 757-69620 ♀ R ✓
~~757-69620~~ ✓
 737-53251 ♀ 2 eggs ✓
 737-39943 ♂ R ✓
 737-27818 ♀ R ✓
 737-53407 ♂ R ✓
 737-39917 ♀ R ✓

#10

10 Dec

✓ADP

BFB returns

737-20724 ♂ R ✓
 737-39993 ♂ R ✓
 737-~~20~~542 ♂ R ✓
 737-39929 ♂ 2 ✓
 737-27843 ♀ " ✓
 737-39708 ♀ R ✓
 737-20732 ♀ lg nestling ✓
 737-39920 ♂ " ✓
 737-53218 ♀ R ✓
 737-28928 ♀ legs/smth ✓
 757-63013 ♂ ✓
 737-20956 ♂ R ✓
 737-39983 ♀ ✓
 737-28924 ♂ 2 eggs ✓
 587-83493 ♀ " ✓
 737-49558 ♂ R ✓
 558-85248 ♀ ✓
 757-65249 ♀ 2 ✓
 737-20731 ♂ 2 ✓

11

10 Dec ✓ ADP
BFB returns

~~737-20930~~ ~~tegg~~
 737-53286 } ♀ sun resting
 737-39958 } ♂ "✓
 757-62876 ♀ R ✓
 737-49853 ♀ sun ✓
 737-49614 ♂ R ✓
 737-49513 ♂ R ✓
 737-53264 ♂ teggs ✓
 737-53231 } ♂ sun ✓
 737-26646 } ♀ ✓
 737-39966 ♂ R ✓
 737-20730 ♂ club ✓
 737-27983 ♀ " ✓
 587-83498 ♀ club ✓
 737-82429 ♀ " ✓
 737-53425 } ♂ lg chick ✓
 558-85027 } ♀ " ✓
 737-39961 } ♂ sun ✓
 737-53450 } ♀ ✓

10 Dec

✓ ADP

12

BFB Returns

NE and

737-20949 ♀ lg nestling ✓
 737-20960 ♂ roosting ✓
 757-61073 ♀ R ✓
 737-49828 ♀ R ✓
 737-53403 } ♂ R ✓
 737-53224 } ♀ R ✓
 568-71353 ♀ R ✓
 587-83341 ♀ R ✓
 737-53219 ♀ teggs ✓
 737-27984 ♂ teggs ✓
 737-22845 ♂ teggs ✓
 737-39954 ♂ R ✓
 587-83335 ♀ sun chick ✓
 737-39885 ♂ sun ✓
 737-26664 } ♀ R ✓
 737-39789 } ♂ R ✓
 757-62927 ♂ R ✓
 737-39782 } ♂ sun ✓
 737-39800 } ♀ ✓

#13

BFB

10 Dec. ✓ADP
Returns

737 23569

♀

2 ✓

737-27936

♀

R ✓

737-20939

♀

lg chick ✓

737-28576

♂

club ✓

737-39752

♂

lg nestling ✓

737-39786

♂

club ✓

737-39739

♀

it ✓

737-20886

A?

" ✓

737-37578

♂

2 eggs ✓

737-28985

♀

lg chick ✓

737-37597

♂

R ✓

737-39788

♀

2 ✓

737-49606

♂

2 eggs ✓

737-68308

♀

R ✓

737-37595

♀

lg nestling ✓

737-26689

♀

1 egg ✓

737-28620

♀

R ✓

587-83346

♂

2 eggs ✓

737-39843

♂

lg chick ✓

587-83607

♀

sm chick ✓

10 Dec

BFB

✓ADP #14

Returns

737-23107

♀

R ✓

737-20564

♀

737-39753

♀

R ✓

587-83432

♂

R ✓

558-85045

♀

2 eggs ✓

737-49597

♂

R ✓

737-20936

♀

R ✓

737-39914

♀

R ✓

737-39764

♀

sm nestling ✓

737-39965

♂

737-49609

♀

R ✓

737-37826

♂

lg chick ✓

737-25875

♂

R ✓

737-20888

♂

R ✓

737-39896

♂

1 egg ✓

737-37851

♀

naked chick ✓

737-39934

♂

R ✓

737-25878

♀

lg chick ✓

737-20712

♀

P ✓

left leg
changed

#15
✓ADP BF B 10 Rec Returns

737-39687	♂	2 eggs ✓
587-83608	♂	2 eggs ✓
737-39759	♂	R ✓
757-65047	♀	sun nest/egg ✓
737-39719	♀	2 eggs ✓
737-53126	♀	sun nest ✓
737-53254	♀	2 eggs ✓
587-83610	♂	1 egg ✓
737-25899	♀	R ✓
737-26684	♀	sun ✓
737-37599	♂	sun ✓
737-26700	♀	R ✓
737-23722	♂	2 eggs ✓
757-62913	♂	R ✓
737-27784	♂	sun chck ✓
558-85053	♀	✓
737-49745	♀	sun nest ✓
737-28598	♂	✓
737-49600	♀	sun ✓

✓ADP BF B - 10 Rec Returns #16

737-37594	♂	R ✓
737-82453	♂	2 eggs ✓
737-39883	♀	R ✓
737-28916	♀	R ✓
737-20477	♂	R ✓
737-27952	♂	sun chck ✓
737-28725	♀	R ✓
737-49580	♂	R ✓
737-49585	♀	R ✓
737-39967	♀	sun ✓
737-39712	♂	✓
737-53220	♀	lg chck ✓
737-49837	♂	" ✓
737-39919	♀	sun ✓
757-62886	♀	" ✓
757-63250	♂	lg nest ✓
587-80877	♀	" ✓
737-27741	♀	R ✓
737-39692	♀	sun ✓
737-49588	♂	✓

#17 ADP BFB return 10 Dec

757-65087	♀	R	✓
737-39559	♀	dm	✓
737-39886	♂	lg nothing	✓
757-35366	♀	R	✓
737-39871	♂	dm	✓
757-65366	♀	R	✓
568-71498	♂	R	✓
568-70573	♀	R	✓
737-39894	♂	dm	✓
737-39690	♀	"	✓
737-39890	♀	Sm chick	✓
737-49576	♂	R	✓
737-49585	♂	2 eggs	✓
737-26677	♂	R	✓
737-49574	♀	2 eggs	✓
568-71425	♀	R	✓
737-39861	♀	R	✓
737-39840	♀	1 egg	✓
737-49571	♂	"	✓

10 Dec #18
BFB return ✓ ADP

737-39666	♀	R	✓
737-39733	♂	dm	✓
737-23593	♂	lg chick	✓
as/mate 757-63120	♀	R	✓
568-71347	♀	Club	✓
558-85222	♀	"	✓
558-85257	♀	"	✓
737-27600	♀	"	✓
568-71035	A?	"	✓
558-85283	A?	"	✓
737-20664	♀	club	✓
587-84054	SA	"	✓
568-71377	♂ but voice, not dist		✓
737-37585	♀	club	✓
737-27662	♀	"	✓
737-27680	♀	"	✓
737-27885	♂	2 eggs	✓
737-37592	♀	R	✓
737-39874	♀	R	✓

#19 ✓ADP
NW corner BFB

10 Dec

2
737- 27685 ♂ R ✓
737- 27696 ♀ R ✓
737- 39806 ♀ R ✓
737- 39838 ♂ Zegso ✓
737- 39855 ♂ leggy ✓
737- 39852 ♂ R ✓
737- 39864 ♀ L ✓
737- 20540 ♀ R ✓
737- 27656 3 ♂ R L ✓
737- 49550 ♀ R ✓
737- 39661 ♂ R ✓
737- 27653 ♂ R ✓
737- 53215 ♂ R ✓
737- 27577 ♀ R ✓
757- 65085 ♂ R ✓
737- 25864 ♀ R ✓
737- 53396 ♂ R ✓
737- 27946 ♀ lg chick ✓
737- 53232 ♀ R ✓

10 Dec #20
W Side N Camp BFB 42, 38 80% bled.

✓ADP

757- 63203 ♂ R ✓
737- 82127 ♂ leggy ✓
~~bled 737- 32128 ♀ sm chick ✓~~
737- 49620 } ♂ sm chick ✓
568- 72073 ♀ R ✓
568- 70423 ♀ R ✓
737- 28615 ♂ R ✓
737- 49848 ♂ R ✓
737- 20708 ♂ leggy ✓
737- 23715 } ♀ lg chick ✓
737- 20559 } ♂ " ✓
737- 27615 ♂ R ✓
737- 26616 3 ♂ R ✓
737- 39749 ♀ " ✓
737- 286572 ♀ R ✓
737- 27542 } ♂ " ✓
737- 27964 ♂ R ✓

11 Dec VADP
Returns
RTTB

625-85757 u legs ^X

11 Dec
Banding
RTTB

645-23336 - immature

37 - immature

38 - immature

————— 39 - missing

40 - immature

41 - immature

R.T.B. Survey

11 Dec Howland

NEST

ADULT & CODE

CONTENTS

NB

- 38

W

37

12

39

38

14

15

16

40

17

45

Z

19

18

41

≡

42

26



625-85757 (≡)

immature

empty

empty

empty

empty

empty

empty

empty

empty

empty

empty

1 egg

empty

empty

empty

1 egg

8 empty

empty

empty

RTTB Survey

Nest

Adult

27	_____
28	_____
24	_____
25	_____
47	_____
48	_____
60	_____
49	_____

11 Dec

Contents

EMPTY

EMPTY

EMPTY

EMPTY

immature NB 40

EMPTY

immature NB 41

EMPTY

11 Dec VADP
 ⑩ BFB RETURNS

737-28776	♀	R	✓
737-28664	♂	"	✓
737-25826	♀	"	✓
737-49749	♂	"	✓
757-63306	♂	2e	✓
568-71322	μ	R	✓
737-23598	♂	R	✓
737-28908	♀	1e	✓
587-83276	♂	imm.	✓
737-20366	♂	lch	✓
737-49682	♀	"	✓
757-63496	♀	R	✓
737-53257	♂	R	✓
737-28534	♀	"	✓
737-20684	♀	R	✓
737-20705	♀	imm.	✓
737-20704	♂	"	✓
737-27508	♀	R	✓

11 Dec VADP ⑩
 BFB RETURNS

757-63426	♂	R	✓
587-83298	♂	"	✓
737-53205	♂	R	✓
737-20701	♀	imm.	✓
737-27611	♀	"	✓
737-27550	♀	1e	✓
737-25836	♀	imm.	✓
737-26609	♂	"	✓
737-20700	♂	R	✓
737-27926	♂	lch	✓
737-27521	♀	"	✓
737-53329	♀	R	✓
757-62978	♂	"	✓
568-71354	♀	R	✓
737-81584	♂	R	✓
568-71373	♀	R	✓
737-53365	♂	R	✓
558-85704	♀	imm.	✓

(34)

11 Dec BFB Returns

✓ADP

587-80864 { ✓ Imm
 568-71370 { ✓ Imm
 737-27559 { ✓ R
 737-27558 { ✓ Imm
 587-83297 { ✓ R
 737-49540 { ✓ R
 737-26621 { ✓ 2e
 737-26628 { ✓ R
 757-62833 { ✓ ch.
 757-60973 { ✓ "
 737-26643 { ✓ R
 737-53239 { ✓ R
 757-63109 { ✓ R
 737-20566 { ✓ Imm.
 737-26648 { ✓ R
 737-53332 { ✓ 2e
 737-53250 { ✓ Imm
 737-23612 { ✓ "

(72)

11 Dec BFB Returns

✓ADP

737-49599 { ✓ R
 737-53300 { ✓ R } Pair
 737-25861 { ✓ R }
 737-39660 { ✓ R
 558-85029 { ✓ R
 737-26653 { ✓ 2e
 737-39858 { ✓ Imm.
 737-39857 { ✓ 2e
 737-27697 { ✓ Imm.
 737-39680 { ✓ R
 737-39865 { ✓ R
 737-39744 { ✓ 2e
 737-82451 { ✓ 2e
 737-39736 { ✓ Imm.
 737-39969 { ✓ R
 737-28781 { ✓ Nchuck
 737-20715 { ✓ "
 737-28606 { ✓ S chuck

96 ADP 11

Dec Returns

BFB

737-28867 - ♀ RV ✓
 757-65183 - ♀ 2e ✓
 737-49632 - ♂ RV ✓
 737-20942 - ♂ RV ✓
 737-39950 - ♀ RV ✓
 737-28533 - ♂ 2e ✓
 587-83433 - ♀ RV ✓
 737-39992 - ♂ 2e ✓
 757-61082 - ♀ 1st clutch ✓
 737-53416 - ♂ ✓
 737-39903 - ♂ 2e ✓
 737-53411 - ♂ 2e ✓
 737-49669 - ♀ 1st clutch ✓
 737-53413 - ♂ ✓
 737-53421 - ♂ RV ✓
 737-20740 - ♀ RV ✓
 737-28560 - ♀ to ♂ RV ✓
 737-53351 - ♀ RV ✓

11 Dec Returns

109

BFB

737-23505 - ♂ 1st clutch ✓
 737-23514 - ♂ " " ✓
 737-20630 - ♀ R ✓
 737-28806 - ♂ imm ✓
 737-20105 - ♀ R ✓
 737-49621 - ♀ clutch ✓
 737-49833 - ♀ imm ✓
 737-20108 - ♀ R ✓
 737-20819 - ♂ R ✓
 737-53083 - ♀ ✓
 587-83037 - ♂ imm ✓
 737-28995 - ♂ imm ✓
 757-63452 - ♂ 1st clutch ✓
 737-49662 - ♀ 2e ✓
 737-53089 - ♂ 2e ✓
 737-28745 - ♀ 2e ✓
 737-20126 - ♂ 1st clutch ✓
 737-28844 - ♀ imm ✓
 737-28884 - ♂ ✓

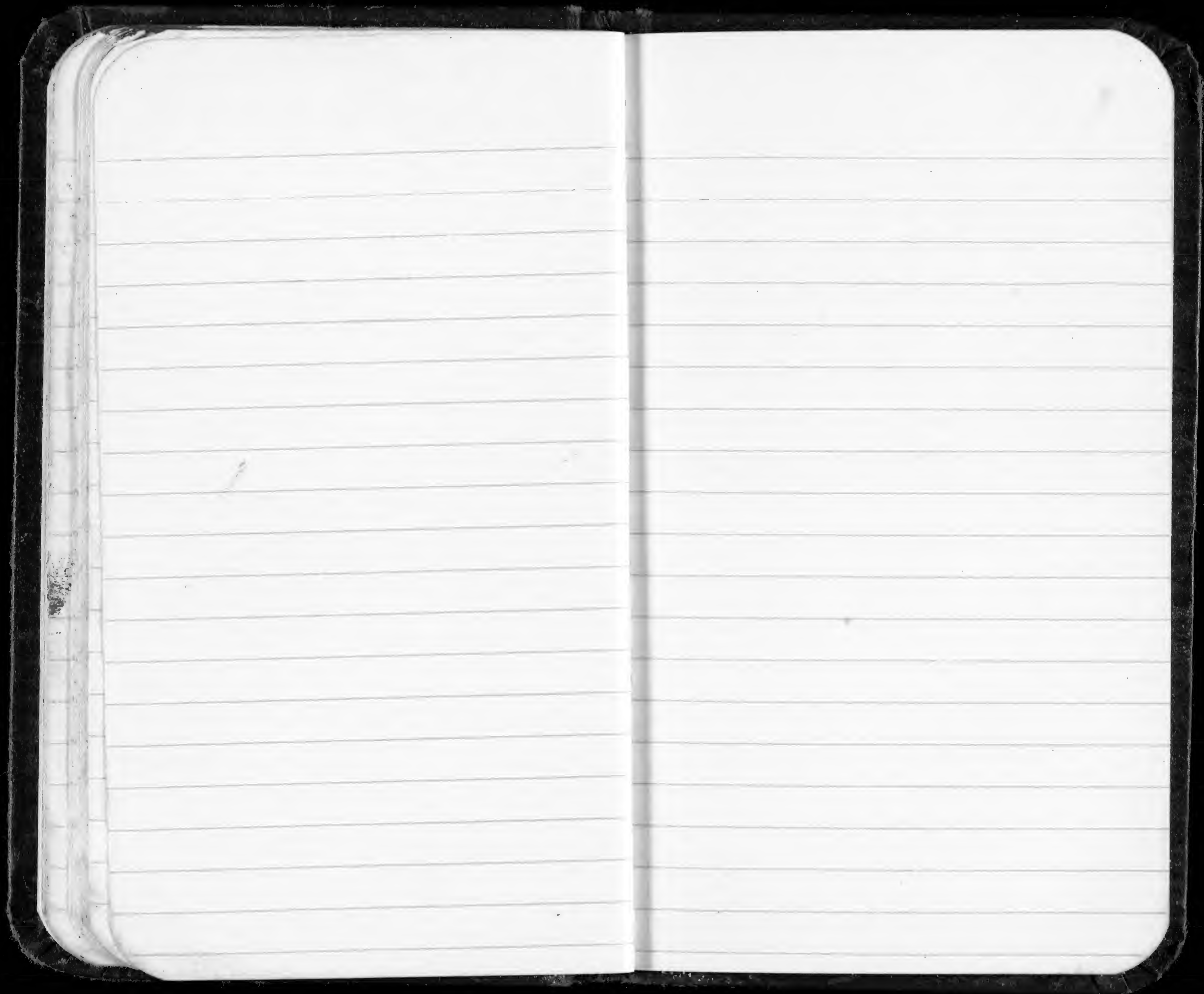
129

11 Dec Returns

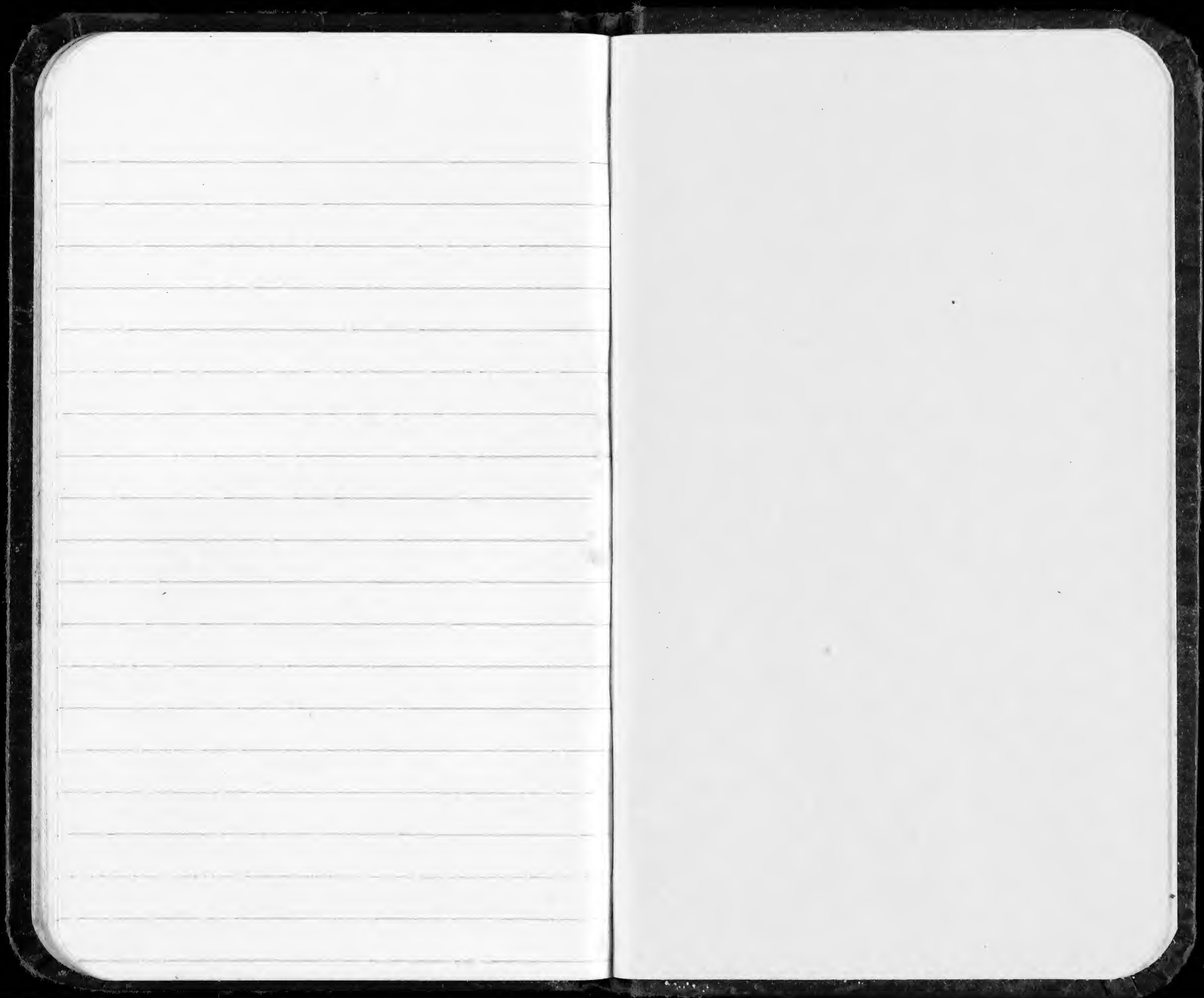
✓ ADP

✓ FRB

587-82508 ♂ club ✓



measures
to ~~the~~ by far
from here to a star
then to put black with white





7530-222-0078

FEDERAL SUPPLY SERVICE